NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

GEOTECHNICAL UNIT

SUBSURFACE INVESTIGATION

SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

Company Comp	·	**		
The content of the second content of the s	SOIL DESCRIPTION		TERMS AND DEFINITIONS	ABBREVIATIONS
Company Comp	SOIL IS CONSIDERED TO BE THE UNCONSOLIDATED. SEMI-CONSOLIDATED OR MEATHERED EARTH MATERIALS WHICH CAN BE PENETRATED			
The content of the	WITH A CONTINUOUS FLIGHT POWER AUGER. AND WHICH YIELDS LESS THAN 199 BLOWS ACCORDING TO STANDARD PENETRATION			
March 1985	TEST (ASTH D-1586), SOIL CLASSIFICATION IS BASED ON THE AASHTO SYSTEM AND BASIC DESCRIPTIONS GENERALLY SHALL INCLUDE:	PUURLI GRADED: GAP-GRADED: INDICATES A MIXTURE OF UNIFORM PARTICLES OF TWO OR MORE SIZES.	APPARENT DIP - THE DIP OF ROCK STRATA NOT PERPENDICULAR TO STRIKE.	CL CLAY PI - PLASTICITY INDEX
The content of the			AGUIFER - A WATER BEARING FORMATION OR STRATA.	COB COBBLE n - POROSITY
March 1 1 1 1 1 1 1 1 1			AUGER REFUSAL (A.R.) - POINT AT WHICH POWER AUGERS WILL NOT PENETRATE.	CSE COARSE SD SAND
The control of the				
The content of the				E - FINE
Column C	SOIL LEGEND AND AASHTO CLASSIFICATION			5L 51L1, 51L11
				SLI SLIGHTLY
The color	CLASS. (≤ 35% PASSING *200) (> 35% PASSING *200)	· ·		FRAC FRACTURED G SPECIFIC GRAVITY
The column	GROUP A-1 A-3 A-2 A-4 A-5 A-6 A-7 A-1, A-2 A-4, A-5	COMPRESSIBILITY		GR GRAVEI
Company Comp				
**************************************	000000000000000000000000000000000000000	MODERATELY COMPRESSIBLE LIQUID LIMIT 31-50		→ - UNIT WEIGHT (WET UNIT WEIGHT)
Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Par	51MBUL 000000000000000000000000000000000000	HIGHLY COMPRESSIBLE LIQUID LIMIT GREATER THAN 50		✓ DRY UNIT WEIGHT
1.	% PASSING	ROCK DESCRIPTION		W NOTOTOLE CONTENT
The contract contract of the	• 10 DO MX MUCK,	IN THE BROADEST MEANING, HARD ROCK IS CONSIDERED THAT MATERIAL WHICH CANNOT BE		MOT MOTTLED /SAT - SATURATED UNIT WEIGHT
March Column Co	• 40 30 MXD0 MXD1 MN			OM - OPTIMUM MOISTURE
18 18 18 18 18 18 18 18	200 15 MX25 MX 10 MX 35 MX 35 MX 35 MX 36 MN 36	COLL AND DOCK IS ADDITIONS TRANSITION DETUGEN COLL AND DOCK IS OFTEN DEDUCENTED		ORG ORGANIC V - VERY
March Marc	I TOUTO L'INIT	DY A ZONE OF "WEATHERED DOCK" FOR THE DIRECT OF THIS INVESTIGATION THESE	i i	7, TEN
CALL	BLOSTIC TUREY C MY N. B. C. MY	1		
CANTON NOTE: CANT	LITTLE OR HIGHLY			
**************************************	ONON THOUSAND TO THE TANK OF THE PARTY OF THE OWNER OWNER OF THE OWNER	MATERIAL THAT CAN BE PENETRATED WITH SUME		CAUTION NOTICE .
The color 1	INCIAL TYPESISTONE FRANCE		FINES - PORTIONS OF A SOIL FINER THAN NO. 200 U.S. STANDARD SIEVE.	CACHON NOTICE.
### DEFECTION OF THE TO CONTROL TO THE TO TH	OF MAJOR GRAVEL AND SAND SAND SOLIS MATTER	7277	FISSILITY OR FISSILE - A PROPERTY OF SPLITTING EASILY ALONG CLOSELY SPACED PARALLEL	THE SURSURFACE INFORMATION AND THE SURSURFACE INVESTIGATION ON WHICH IT IS BASED WAS MADE
Column C	MATERIALS SHAD	(HUD)		FOR THE PURPOSE OF STUDY, PLANNING AND DESIGN, AND NOT FOR CONSTRUCTION OR PAY PURPOSES.
The content of the	I FAIR ID	WENTHERED DIFFICULTY USING PUWER AUGERS AND FIELDS		SOME DATA OBTAINED MAY BE OMITTED FROM THIS RELEASE.
Part	AS A EXCELLENT TO GOOD FAIR TO POUR POOR POOR UNSUITABL	1//		ADDITIONAL INFORMATION MAY BE AVAILABLE. INCLUDING BUT HAT LIBETED TO THE FOLLOWING
Control Cont			FLOODPLAIN - LAND BORDERING A STREAM, BUILT OF SEDIMENTS DEPOSITED BY THE STREAM.	ADDITIONAL INFORMATION MAY BE AVAILABLE, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
## SOLITE CONTINUE OF CONTINUE CONTINUE OF CONTINU			FORMATION - A MAPPABLE UNIT THAT CAN BE RECOGNIZED AND TRACED IN THE FIELD.	FIELD BORING LOGS
March 1.17 Control 1.17 Contro			1 · · · · · · · · · · · · · · · · · · ·	ROCK CORES
MATERIAL PROPERTY 19 19 19 19 19 19 19 1				
### WORK 10 6 10 10			FRIABLE - EASY TO BREAK OR CRUMBLE.	SUBSURFACE REPORT
STATE COLUMN CO				THIS INFORMATION MAY BE VIEWED BY ADDOINTMENT BY CONTACTING THE N.C. DEDADTMENT OF
Second				
Married Property	1	CORE RECOVERY (REC.) - TOTAL LENGTH OF ROCK RECOVERED IN THE CORE BARREL DIVIDED	THE THE COUNTY OF THE PERSON O	
Vieth Dodge				
Married 10 10 10 10 10 10 10 1				
Company Comp			HARDPAN - A GENERAL TERM USED TO DESCRIBE A HARD CEMENTED SOIL LAYER WHICH DOES	
## WITE JACK WIT	SOFT 2 TO 4			
WITH LEGS OF SECURITY OF STATE OF SECURITY	GENERALLY MEDIUM STIFE 4 TO 8		INDURATED - EARTH MATERIAL HARDENED BY HEAT, PRESSURE OR CEMENTATION.	
## STATUTE OF GRAIN STATE 10	STIFF 8 TO 15 100 TO 200	WATER LEVEL IN BORE HOLE IMMEDIATELY AFTER DRILLING.	INTERBEDDED - ALTERNATING LENSES OR LAYERS OF SOIL AND/OR ROCK MATERIALS.	
CANTON C	*EN 311FF 15 10 30 200 10 400	TATIC WATER LEVEL ACTED 24 HOURS	JOINT - FRACTURE IN ROCK ALONG WHICH NO APPRECIABLE MOVEMENT HAS OCCURRED.	
LETT-TIPE OR GRAIN SIZE	HARD >30 >400	SINITO WHIER LEVEL MITTER 24 HOURS.	LAMINATED - VERY THIN ALTERNATING LAYERS LESS THAN LINCH.	
1.0. 1.0.	TEXTURE OR GRAIN SIZE	PERCHED WATER, SATURATED ZONE OR WATER BEARING STRATA		TEMPERATURES, PRECIPITATION AND WIND, AS WELL AS OTHER NON-CLIMATIC FACTORS.
The property control of the		000		THE RIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS SHOWN ON THE SUBSLIDEACE PLANS
MISCELLANEOUS SYMBOL SAND ABBETTOT CONS. SOFT		SPRING OR SEEPAGE		
## 1500 DEL MORE DRIVE DRIVER DRI	OPENING (MM) 4.76 2.0 0.42 0.25 0.075 0.053	MISCELLANEOUS SYMBOLS AND ARREVIATIONS	ļ	
SOURCE OF THE THE PROPRIES OF THE CHANGE OF	COARSE FINE		LENS - A BODY OF SOIL OR ROCK THAT THINS OUT IN ONE OR MORE DIRECTIONS.	
MAINTENERS 1.00 1		ROADWAY EMBANKMENT SAPE TEST BORING SAPELE		
SOLI MOISTURE CORRELATION OF TERMS SIL MOISTURE CO		WITH SOIL DESCRIPTION VST DESIGNATIONS	CONTAINING SHELLS.	
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SOLI MOISTURE - CORRECTION OF TERMS SOLINATION ESCALE FIELD MOISTURE OCCREGATION OF TERMS ONLINE OF TELLO MOISTURE OCCREGATION OF TERMS ONLINE OF TELLO MOISTURE OCCREGATION FIELD MOISTURE OCCREGATION OF TELLO MOISTURE OCCREGATION OCCREGATION OCCREGATION OCCREGATION OCCREGATIO	SIZE IN. 12' 3"	1 1 3012 511302		CONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONAL COMPENSATION OR FOR AN EXTENSION OF TIME FO
ONLY DISTRICT STREET CLIMITS ON OF FOR FIGURE SCALE FIGURES ON STREET CONTINUES CONTI	COLL MOLCTURE CORRELATION OF TERMS			
CATTERBERG LIMITS) OBSCRIPTION OBSCRIPTION		ROADWAY EMBANKMENTS -()- CORE BORING	!	THOSE INDICATED IN THE SUBSURFACE INFORMATION.
SATURATED - USUALLY LIQUID VERY WET. USUALLY FORM BELLW HE (PRODUCT VERY WET. USUALLY FORM BELLW HE VERT WET. USUAL		SI- SHELBY TOBE		
SALLY LIQUID LIMIT - SALMATED - USUALLY LIQUID LIMIT - WET - (W) - SEMSOLID REQUIRES DRYING TO ATTAIN OPTIMUM MOISTURE - WIST - (W) - SEMSOLID REQUIRES DRYING TO ATTAIN OPTIMUM MOISTURE - WIST - (W) - SEMSOLID REQUIRES DRYING TO ATTAIN OPTIMUM MOISTURE - WIST - (W) - ORY - (D) - REQUIRES ADDITIONAL VATER TO ATTAIN OPTIMUM MOISTURE - DRY - (D) - PLASTICITY - DRY - (D) - REQUIRES ADDITIONAL VATER TO ATTAIN OPTIMUM MOISTURE - PLASTICITY - DRY - (D) - REQUIRES ADDITIONAL VATER TO ATTAIN OPTIMUM MOISTURE - DRY - (D) - REQUIRES ADDITIONAL VATER TO ATTAIN OPTIMUM MOISTURE - DRY - (D) - DRY - (D) - REQUIRES ADDITIONAL VATER TO ATTAIN OPTIMUM MOISTURE - DRY - (D) - DRY - (D) - REQUIRES ADDITIONAL VATER TO ATTAIN OPTIMUM MOISTURE - DRY - (D) - REQUIRES ADDITIONAL VATER TO ATTAIN OPTIMUM MOISTURE - DRY - (D) - REQUIRES ADDITIONAL VATER TO ATTAIN OPTIMUM MOISTURE - PLASTICITY - DRY - (D) - REQUIRES ADDITIONAL VATER TO ATTAIN OPTIMUM MOISTURE - PLASTICITY - DRY - (D) - REQUIRES ADDITIONAL VATER TO ATTAIN OPTIMUM MOISTURE - PLASTICITY - DRY - (D) - REQUIRES ADDITIONAL VATER TO ATTAIN OPTIMUM MOISTURE - PLASTICITY - DRY - (D) - REQUIRES ADDITIONAL VATER TO ATTAIN OPTIMUM MOISTURE - PLASTICITY - DRY - (D) - REQUIRES ADDITIONAL VATER TO ATTAIN OPTIMUM MOISTURE - PLASTICITY - DRY - (D) - REQUIRES ADDITIONAL VATER TO ATTAIN OPTIMUM MOISTURE - PLASTICITY - DRY - (D) - REQUIRES ADDITIONAL VATER TO ATTAIN OPTIMUM MOISTURE - PRESENCE OF A PERCENTAGE OF ARTHER TRACE - MOISTAIN AND THE ACTUAL CONDITIONS AT THE PROJECT STIZE - MOISTAIN AND THE ACTUAL CONDITIONS AT THE PROJECT STIZE - MOISTAIN AND THE ACTUAL CONDITIONS AT THE PROJECT STIZE - DRY - (D) - PRESENCE ALIDATE OF A PERCENTAGE OF ROCK OLIDATE TO TOTAL AND THE ACTUAL CONDITIONS AT THE PROJECT STIZE - PRESENCE OR A PERCENTAGE OF STIZE AND THE COLLEGE	CATTERIOR CIVITO	MUNITURING WELL		
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- WET - (W) SEMISOLION REDUIRES DRYIND TO ATTAIN OPTIMUM MOISTURE - WET - (W) SEMISOLION REDUIRES DRYIND TO ATTAIN OPTIMUM MOISTURE - WET - (W) ATTAIN OPTIMUM MOISTURE - WIST - (H) SOLIDIA TO RINEAR OPTIMUM MOISTURE - WIST - (H) SOLIDIA TO RINEAR OPTIMUM MOISTURE - BRY - (D) REDUIRES ADDITIONAL WATER TO ATTAIN OPTIMUM MOISTURE - DRY - (D) REDUIRES ADDITIONAL WATER TO ATTAIN OPTIMUM MOISTURE - PLASTICITY - PLASTICITY DESCRIPATION OF THE PLAN AND THE PLAN AND THE PLAN AND THE PLAN			ROCK - SEE LEGEND	NOTE - BY HAVING REQUESTED THIS INFORMATION THE CONTRACTOR SPECIFICALLY WAIVES ANY CLAIMS
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ON OPTIMUM MOISTURE SULTIVATION NOT NEAR OPTIMUM MOISTURE SHRINKAGE LIMIT FOULTMENT USED ON SUBJECT PROJECT HAMMER TYPE			SANITARY LANDFILLS - COMPACTED AND/OR COVERED LAYERS OF SOIL AND WASTE PRODUCTS.	
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PLASTICITY PLASTICITY PLASTICITY ONDPLASTIC PLASTICITY ONDPLASTIC				
PLASTICITY INDEX DRY STRENGTH PLASTICITY INDEX DRY STRENGTH BK-51 BK-61 BK-51 BK-61 BK-		MOBILE B 6" (152 mm) CONTINUOUS FLIGHT AUTOMATIC MANUAL		
NONPLASTIC 8-5 VERY LOW			ITS LATERAL EXTENT.	
LOW PLASTICITY 6-15 SLIGHT MED. PLASTICITY 16-25 MEDIUM MED. PORTABLE HOIST CLAY BITS DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN, RED, YEL-BRN, BLUE-GRAY) MODIFIERS SUCH AS LIGHT, DARK, MOTTLED, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE. OTHER A 140 LB. HAMMER FALLING 30 INCHES REQUIRED TO PRODUCE A PENETRATION OF I FOOT INTO SOIL WITH A 2 INCH DUSIDE DIAMETER SPUT SPOON SAMPLER. SPT REFUSAL PENETRATION RESISTANCE OF LESS THAN INCH WITH 50 BILWYS. STRIKE - THE DIRECTION OR BEARING OF A HORIZONTAL LINE IN THE PLANE OF AN INCLINED STRATUM, JOINT, FAULT OR OTHER STRUCTURAL PLANE. SUBGRADE - THE SOIL PREPARED TO SUPPORT A STRUCTURE OR A PAVEMENT SYSTEM. TOPSOIL (T.S.) - SURFACE SOILS USUALLY CONTAINING ORGANIC MATTER.	PLASTICITY INDEX DRY STRENGTH	BK-31 CORE BORING TOOLS:	SOME - PRESENCE OF 5% TO 30% OF SUBJECT MATERIAL.	
LOW PLASTICITY 6-15 SLIGHT MED. PLASTICITY 16-25 MEDIUM MED. PORTABLE HOIST CLAY BITS DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN, RED, YEL-BRN, BLUE-GRAY) MODIFIERS SUCH AS LIGHT, DARK, MOTTLED, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE. OTHER A 140 LB. HAMMER FALLING 30 INCHES REQUIRED TO PRODUCE A PENETRATION OF I FOOT INTO SOIL WITH A 2 INCH DUSIDE DIAMETER SPUT SPOON SAMPLER. SPT REFUSAL PENETRATION RESISTANCE OF LESS THAN INCH WITH 50 BILWYS. STRIKE - THE DIRECTION OR BEARING OF A HORIZONTAL LINE IN THE PLANE OF AN INCLINED STRATUM, JOINT, FAULT OR OTHER STRUCTURAL PLANE. SUBGRADE - THE SOIL PREPARED TO SUPPORT A STRUCTURE OR A PAVEMENT SYSTEM. TOPSOIL (T.S.) - SURFACE SOILS USUALLY CONTAINING ORGANIC MATTER.	NONPLASTIC 0-5 VERY LOW	HARD FACED FINGER BITS -AX -BX -NX	STANDARD PENETRATION TEST (PENETRATION RESISTANCE) (SPT) - NUMBER OF BLOWS (N OR B.P.F.) OF	
MED. PLASTICITY 16-25 MEDIUM HIGH PLASTICITY 26 OR MORE HIGH PORTABLE HOIST COLOR DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN, RED, YEL-BRN, BLUE-GRAY) MODIFIERS SUCH AS LIGHT, DARK, MOTTLED, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE. MEDIUM HAND TOOLS PORTABLE HOIST CLAY BITS TUNG CARBIDE INSERTS HAND TOOLS POST HOLE DIGGER HAND TOOLS POST HOLE DIGGER HAND TOOLS STRIKE - THE DIRECTION OR BEARING OF A HORIZONTAL LINE IN THE PLANE OF AN INCLINED STRATUM, JOINT, FAULT OR OTHER STRUCTURAL PLANE. SUBGRADE - THE SOIL PREPARED TO SUPPORT A STRUCTURE OR A PAVEMENT SYSTEM. TOPSOIL (T.S.) - SURFACE SOILS USUALLY CONTAINING ORGANIC MATTER.			A 140 LB. HAMMER FALLING 30 INCHES REQUIRED TO PRODUCE A PENETRATION OF I FOOT INTO SOIL WITH	
HIGH PLASTICITY 26 OR MORE HIGH PORTABLE HOIST COLOR DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN, RED, YEL-BRN, BLUE-GRAY) MODIFIERS SUCH AS LIGHT, DARK, MOTTLED, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE. DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN, RED, YEL-BRN, BLUE-GRAY) MODIFIERS SUCH AS LIGHT, DARK, MOTTLED, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE. OTHER POST HOLE DIGGER INCLINED STRATUM, JOINT, FAULT OR OTHER STRUCTURAL PLANE. SUBGRADE - THE SOIL PREPARED TO SUPPORT A STRUCTURE OR A PAVEMENT SYSTEM. TOPSOIL (T.S.) - SURFACE SOILS USUALLY CONTAINING ORGANIC MATTER.		CME-550 TUNG CARBIDE INSERTS HAND TOOLS:		
COLOR COLOR PORTABLE HOIST CLAY BITS DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN, RED, YEL-BRN, BLUE-GRAY) MODIFIERS SUCH AS LIGHT, DARK, MOTTLED, STREAKED, ETC, ARE USED TO DESCRIBE APPEARANCE. DOTHER OTHER OTHE		POST HOLE DIGGER		
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		OTUER	TOPSOIL (T.S.) - SURFACE SOILS USUALLY CONTAINING ORGANIC MATTER.	<u></u>
			TRACE - PRESENCE OF LESS THAN 5% OF SUBJECT MATERIAL.	REVISED AUGUST 10, 1998

ID NUMBER SHEET NO. TOTAL SHEETS R-2206B 2 88